

## ABSTRACT OF THE DISCLOSURE

5 A programmable microcomputer controlled load sensing system  
for maximizing the cleaning efficiency of particulate raw  
materials such as sand, gravel, rock, ores, etc. in a log washer  
by sensing the weight of the aggregate in the log washer tank and  
adjusting the angle of inclination of the tank for cleaning  
efficiency. The system includes a log washer tank pivoted at its  
10 lower end and supported by hydraulic cylinders at its upper end.  
A high/low pressure sensor detects changes in the weight of the  
load by changes in hydraulic fluid pressure communicated to the  
microcomputer, and raises or lowers the upper end of the tank  
when the programmed low or high pressure limits are exceeded  
15 through solenoid activated hydraulic valves.